

APPENDIX A

Soil Boring Logs and Well Completion Details

ENVIRON

USCS SOIL CLASSIFICATION CHART



(GW) Well Graded Gravel; Well Graded Gravel with sand



(GP) Poorly Graded Gravel; Poorly Graded Gravel with sand



(SW) Well Graded Sand





(SP) Poorly Graded Sand



(ML) Silt; Silt with sand



(CL) Clay; Clay with sand



(ML/SM) Sandy Silt/Silty Sand



(SP) Poorly Graded Sand with gravel



(SW) Well Graded Sand with gravel



(SM) Silty Sand



(SP-SM) Poorly Graded Sand with silt



(ML) Sandy Silt



(CL) Sandy Clay



(GM) Silty Gravels



(GC) Clayey Gravels



(SC) Clayey Sand



(SP-SC) Sand with Clay



(ML) Gravelly Silt



(CL) Gravelly Clay

WELL CONSTRUCTION SYMBOLS KEY



Concrete



Cement/Bentonite Grout



Bentonite Chips



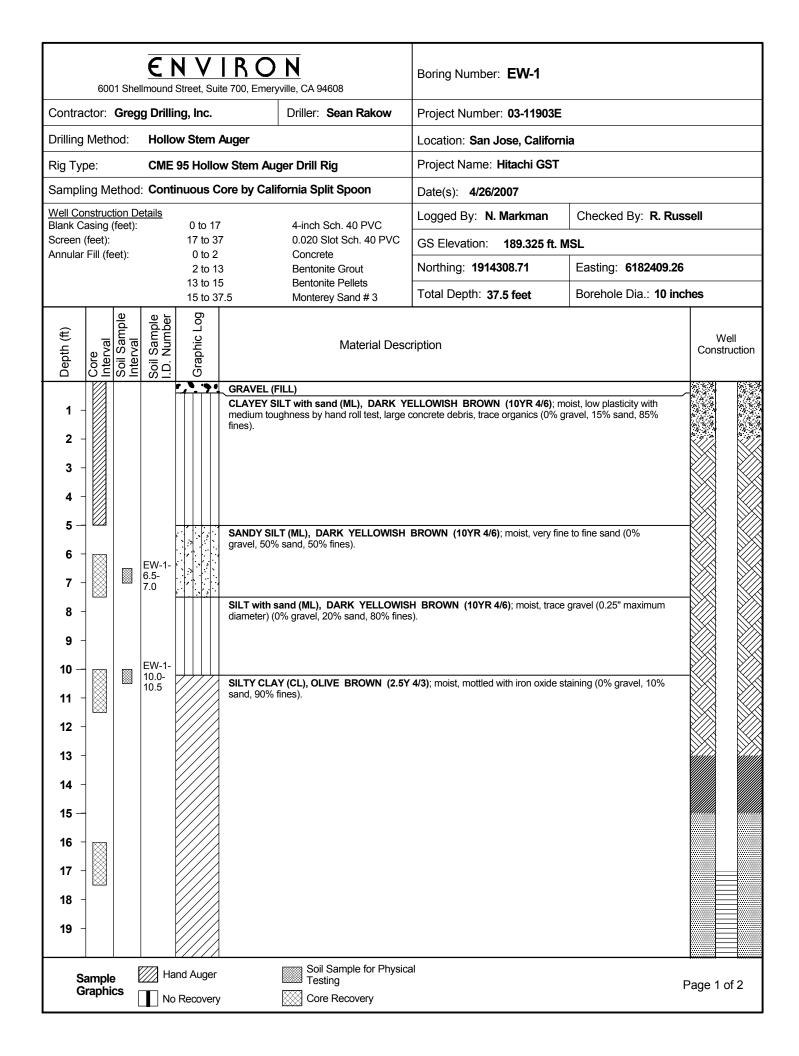
Screened Interval in Filter Pack



End Cap



Natural Fill/Slough



Boring No.: **EW-1** Project No.: 03-11903E ENVIRON Project Name: Hitachi GST, San Jose, California 6001 Shellmound Street, Suite 700, Emeryville, CA 94608 Date(s): 4/26/2007 Soil Sample Interval Soil Sample I.D. Number Graphic Log Depth (ft) Well Core Interval Material Description Construction 21 EW-1 21.5-22.0 SANDY CLAY (CL), DARK YELLOWISH BROWN (10YR 4/3); moist, very fine to fine sand (0% 22 gravel, 40% sand, 60% fines). SILTY CLAY (CL), OLIVE BROWN (2.5Y 4/3); moist, mottled with iron oxide staining (0% gravel, 10% 23 sand, 90% fines). 24 25 SANDY CLAYEY SILT (ML), DARK OLIVE BROWN (2.5Y 3/3); moist (0% gravel, 35% sand, 65% fines). 26 At 26.5 feet bgs: saturated. 27 SILTY CLAY (CL), DARK GRAYISH BROWN (2.5YR 4/2); soft, moist, iron oxide staining (0% gravel, 28 5% sand, 95% fines). 29 30 31 SILTY FINE SAND (SM), VERY DARK GRAYISH BROWN (10YR 3/2); saturated (0% gravel, 75% EW-1 32 32.0-32.5 sand, 25% fines). 33 SILTY CLAY (CL), DARK GRAY (10YR 4/1); moist, iron oxide staining, meduim plasticity and toughness by hand roll test (0% gravel, 5% sand, 95% fines). 34 35 36 EW-1 37 37.0-37.5 38 End of boring at 37.5 feet bgs. 39 Extraction well installed 4/26/2007. 40 41 42 43 44 45 46

Sample Graphics Hand Auger

No Recovery

Soil Sample for Physical Testing

Core Recovery

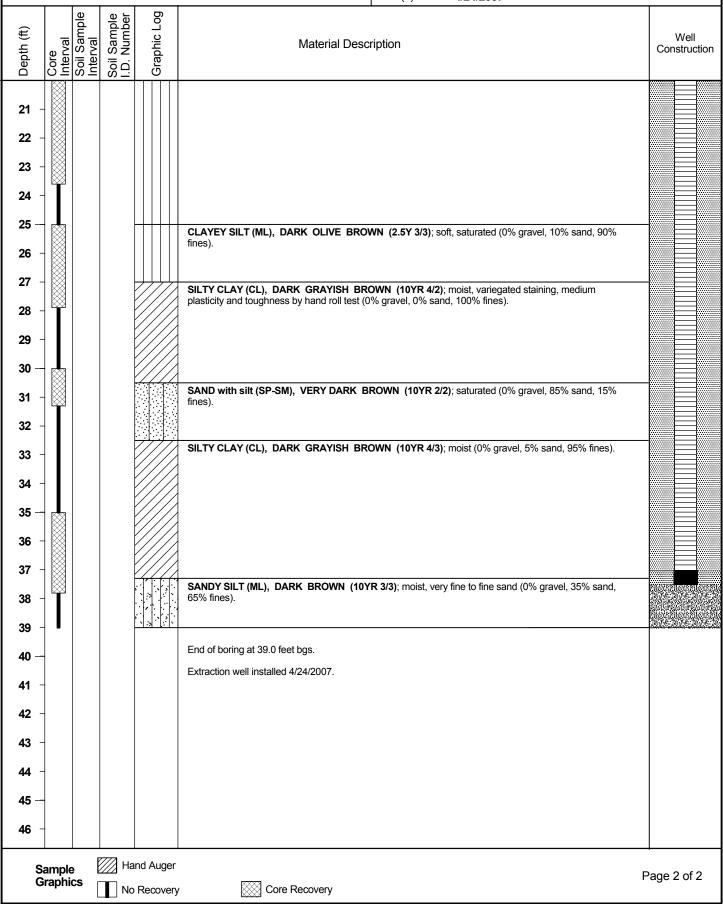
	ENVIRO	Pryville, CA 94608	Boring Number: EW-2					
Contractor: Gregg	Drilling, Inc.	Driller: Sean Rakow	Project Number: 03-11903E					
Drilling Method: Hollow Stem Auger			Location: San Jose, California					
Rig Type: CME 95 Hollow Stem Auger Drill Rig			Project Name: Hitachi GST					
Sampling Method:	Continuous Core by Ca	alifornia Split Spoon	Date(s): 4/24/2007					
Well Construction Details Blank Casing (feet): 0 to 17 4-inch Sch. 40 PVC			Logged By: N. Markman	Checked By: R. Russell				
Screen (feet): 17 to 37		0.020 Slot Sch. 40 PVC Concrete	GS Elevation: 187.915 ft. MSL					
Annular Fill (feet):	0 to 2 2 to 13	Bentonite Grout	Northing: 1914333.35	Easting: 6182435.10				
	13 to 15 15 to 37.5	Bentonite Pellets Monterey Sand # 3	Total Depth: 39.0 feet	Borehole Dia.: 10 inc	hes			
Depth (ft) Core Interval Soil Sample Interval	Soil Sample I.D. Number I.D. Soil Sample Graphic Log	Material Desc			Well Construction			
1 -	CLAYEY gravel and SANDY S gravel, 50 CLAYEY plasticity a CLAYEY	SILT with sand (ML), DARK YED dorganics (0% gravel, 20% sand, 50% fines). SILT (ML), DARK YELLOWISH and toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same toughness by hand roll test, volume to the same t	H BROWN (10YR 4/4); moist, very fine to fine sand (0% SH BROWN (10YR 4/4); moist, iron oxide staining, low, very fine sand (0% gravel, 5% sand, 95% fines). (2.5Y 5/2); moist, mottled with iron oxide staining (0% gravel,					
Sample Graphics Hand Auger No Recovery Some Page 1 of 2								

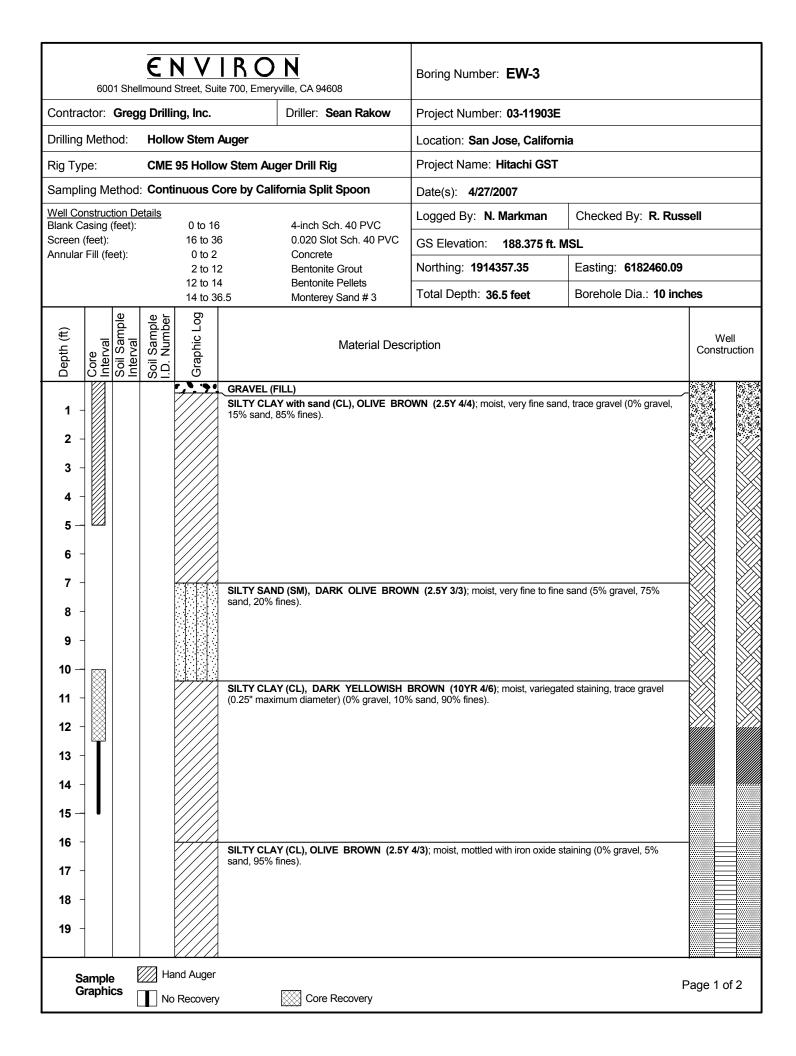
Boring No.: **EW-2** Project No.: **03-11903E**

Project Name: Hitachi GST,

San Jose, California

Date(s): 4/24/2007





Boring No.: EW-3 Project No.: **03-11903E** ENVIRON Project Name: Hitachi GST, San Jose, California 6001 Shellmound Street, Suite 700, Emeryville, CA 94608 Date(s): 4/27/2007 Core Interval Soil Sample Interval Soil Sample I.D. Number Graphic Log Depth (ft) Well Material Description Construction 21 22 SANDY SILT to SILTY SAND (ML/SM), DARK YELLOWISH BROWN (10YR 4/3); moist, very fine to 23 fine sand (0% gravel, 40% sand, 60% fines). 24 25 SILTY CLAY (CL), DARK GRAYISH BROWN (10YR 4/2); moist, mottled with iron oxide staining (0% gravel, 0% sand, 100% fines). 26 27 28 29 30 SILTY SAND (SM), OLIVE BROWN (2.5Y 4/4); saturated, very fine to medium sand (0% gravel, 65% 31 sand, 35% fines). 32 SILTY CLAY (CL), DARK GRAYISH BROWN (2.5Y 4/2); moist, iron oxide staining, meduim plasticity 33 and toughness by hand roll test (0% gravel, 0% sand, 100% fines). 34 35 36 37 End of boring at 36.5 feet bgs. 38 Extraction well installed 4/27/2007. 39 40 41 42 43 44 45 46

Core Recovery

Hand Auger

No Recovery

Sample

Graphics

ENVIRON 6001 Shellmound Street, Suite 700, Emeryville, CA 94608 Boring Number: EW-4							
Contractor: Gregg Drilling, Inc. Driller: Sean Rakow				Project Number: 03-11903E			
Drilling Method: Hollow Stem Auger				Location: San Jose, California			
Rig Type: CME 95 Hollow Stem Auger Drill Rig				Project Name: Hitachi GST			
Sampling Method: Continuous Core by California Split Spoon			on	Date(s): 4/24/2007			
Screen (feet): 17 to 37 0.02		4-inch Sch. 40 I	4-inch Sch. 40 PVC	Logged By: N. Markman Checked By: R. Russell			
		0.020 Slot Sch. Concrete	. 40 PVC	GS Elevation: 190.535 ft. I	MSL		
Amulai i ii (leet).	2 to 13	Bentonite Grout	Bentonite Grout	Northing: 1914271.98	Easting: 6182420.	92	
		13 to 15 Bentonite Pellets 15 to 37.5 Monterey Sand # 3		Total Depth: 40.0 feet	Borehole Dia.: 10 inches		
Depth (ft) Core Interval Soil Sample Interval	Soil Sample I.D. Number Graphic Log	Mate	erial Descr	ription	Well Construction		
1 - CLAYEY S toughness		CLAYEY SILT (ML), DARK BI toughness by hand roll test, trace support to the state of the state o	LT (ML), DARK BROWN (10YR 3/3); moist, low to medium plasticity with medium by hand roll test, trace gravel (maximum length 1.0") (0% gravel, 10% sand, 90% fines). T (ML/SM), BROWN (10YR 4/3); moist, very fine to fine sand (0% gravel, 40% sand, 60% and 50% gravel). Y (CL), GRAYISH BROWN (2.5Y 5/2); moist, meduim plasticity and toughness by hand roll avel, 15% sand, 85% fines). T (ML), OLIVE BROWN (2.5Y 4/4); moist (0% gravel, 35% sand, 65% fines).				
Sample Graphics Hand Auger Page 1 of 2 No Recovery							

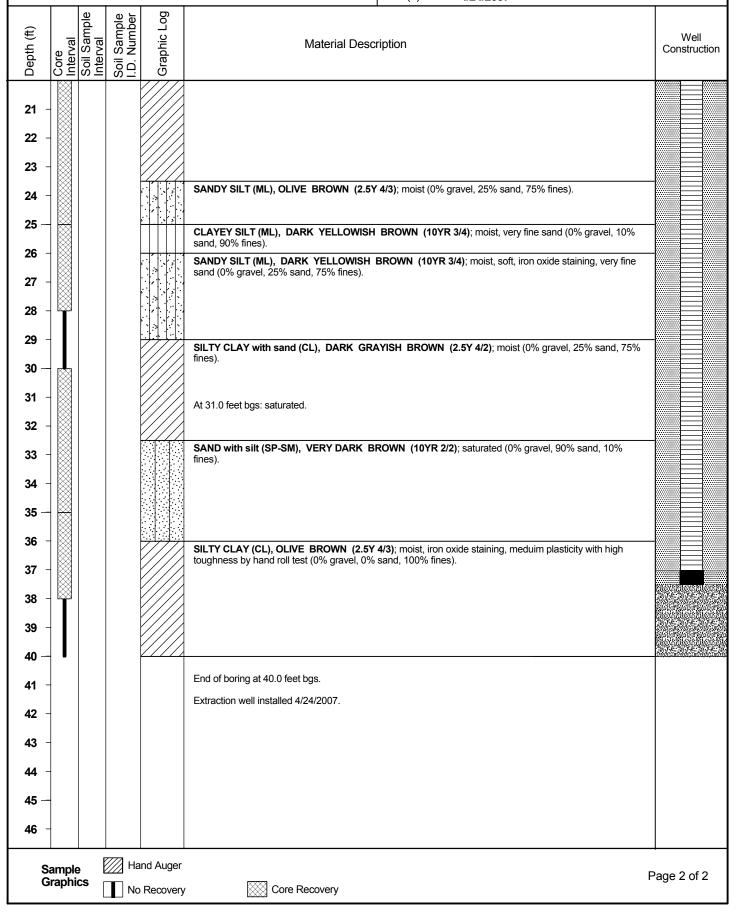
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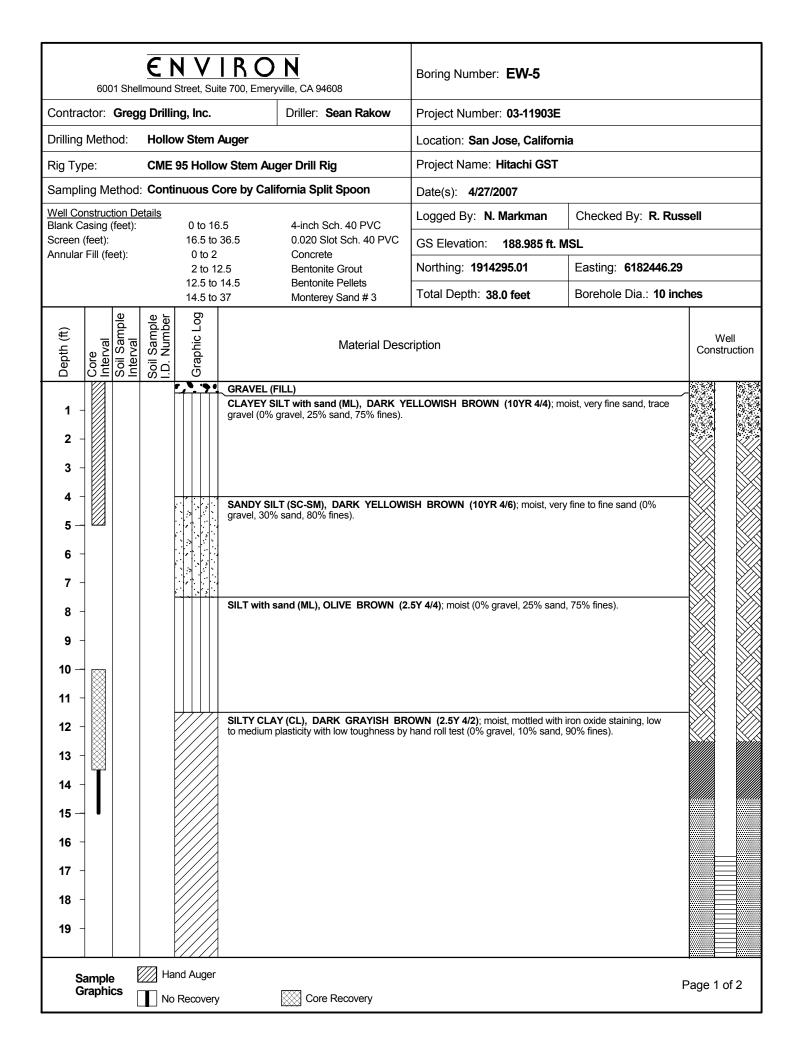
Project No.: **03-11903E**

Project Name: Hitachi GST,

San Jose, California

Date(s): 4/24/2007





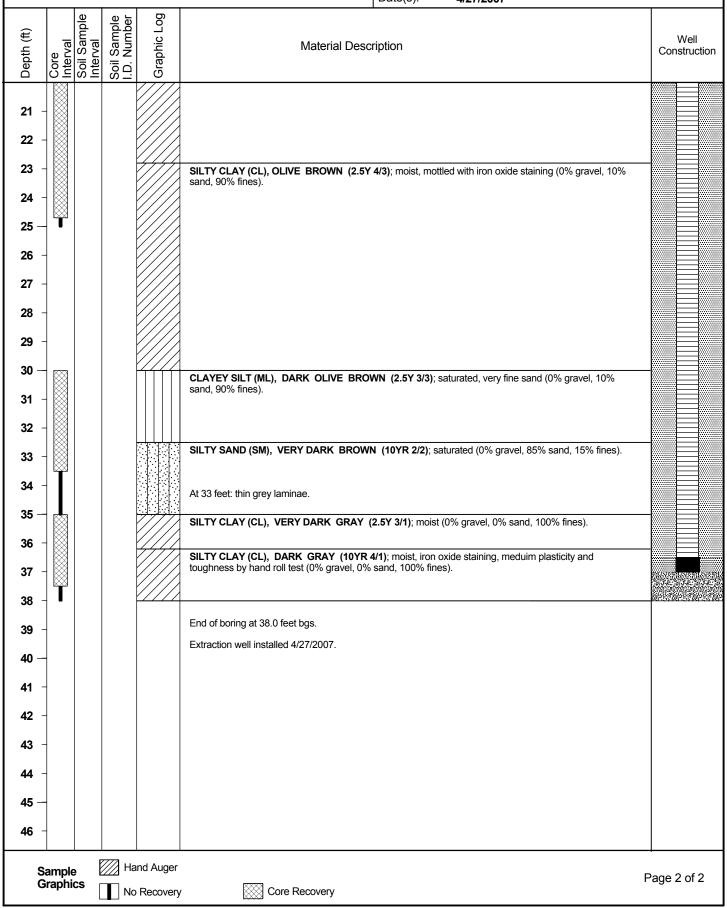
Boring No.: **EW-5**

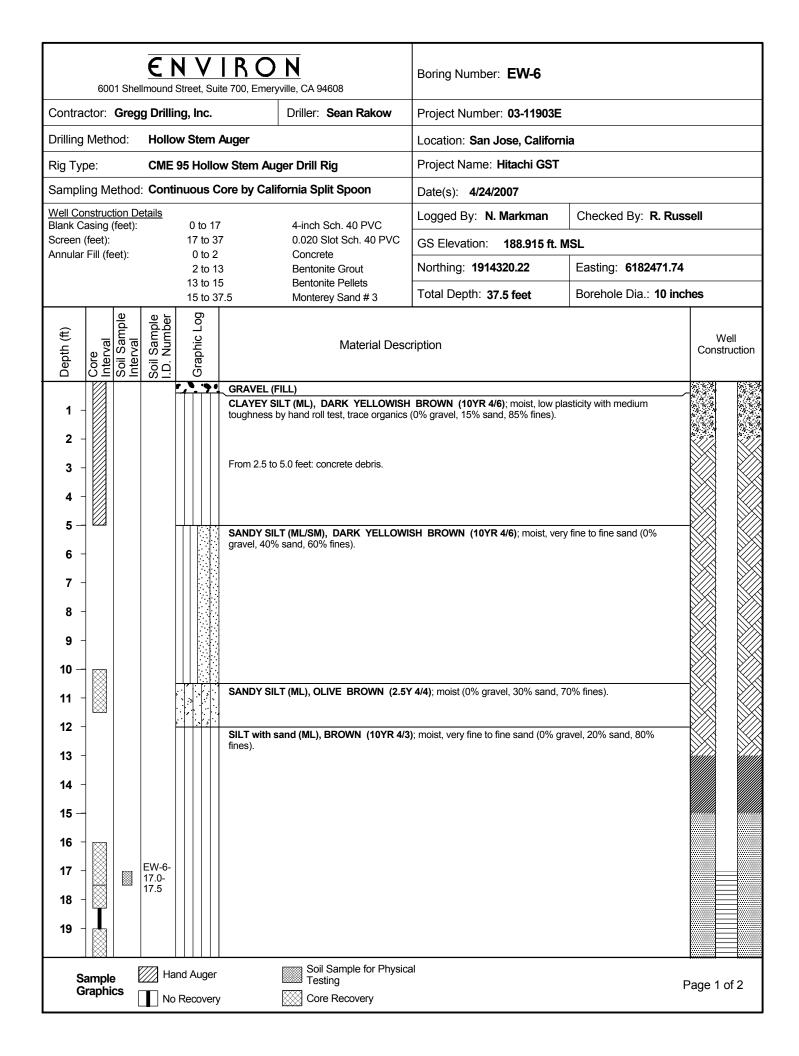
Project No.: **03-11903E**

Project Name: Hitachi GST,

San Jose, California

Date(s): 4/27/2007





Boring No.: EW-6 Project No.: 03-11903E

Project Name: Hitachi GST,

San Jose, California

Date(s): 4/24/2007

Soil Sample Interval Soil Sample I.D. Number Graphic Log Depth (ft) Well Core Interval Material Description Construction 21 22 SANDY SILT (ML\SM), BROWN (10YR 4/3); moist, very fine to fine sand (0% gravel, 40% sand, 60% 23 At 22.8 feet: saturated. 24 25 26 SILTY SAND (SM), DARK OLIVE BROWN (2.5Y 3/3); saturated (0% gravel, 85% sand, 15% fines). 27 28 SILTY CLAY (CL), DARK GRAYISH BROWN (2.5YR 5/2); moist (0% gravel, 5% sand, 95% fines). 29 30 31 SAND with silt (SP-SM), VERY DARK BROWN (10YR 2/2); saturated (0% gravel, 90% sand, 10% 32 fines). 33 SILTY CLAY (CL), VERY DARK GRAYISH BROWN (2.5Y 3/2); moist, iron oxide staining, meduim 34 plasticity and toughness by hand roll test (0% gravel, 0% sand, 100% fines). 35 36 37 38 End of boring at 37.5 feet bgs. Extraction well installed 4/25/2007. 39 40 41 42 43 44 45 46 Soil Sample for Physical Hand Auger Sample Testing Page 2 of 2 **Graphics** No Recovery Core Recovery

